- Data Base Maintenance (Cont'd.)

  Max-min-average 1980 contamination concentrations for Total Beta, Tritium and Nitrate were listed on the line printer for Paul Eddy.

  An update to the data base was made with contamination readings for December 1980 and January 1981. This set of update cards contained changes to the Total Beta values received for October, November and December 1980 and January 1981. Fifty-five drillers logs of wells southeast of Gable Mountain were extracted from the data base and output to the line printer.

- Model Update

  UNSAT is now composed of two subprograms, UNSAT 1 (old UNPROG 1) and UNSAT 3. This month was spent debugging the computational algorithms of UNSAT 3. Attempts to use the new virtual array capabilities of the PDP 11/45 to increase core storage of the code failed. Using virtual arrays on the 11/45 tended to cut off the other users.

  Present modeling is on the two-dimensional drainage problem, its timing, debugging, and improvement of the code. An existing one-dimensional code for solution comparison is presently being used. Once the head estimations appear to be operating correctly, the next step will be to include an iteration scheme into the code.

- Geophysical Log Interpretation

  Program LOGPLT1 was updated to output digitized well logs in a variety of formats and to different output devices such as the Ramtek scope, line printer, computer disk or mag tape.

  Program DIGLOG1 was documented and delivered.

  A preliminary file structure for the well log data base was designed. This data base will run on the W&LR 11/70 computer and will use Files-11 files. These two aspects will improve user accessibility to the data. A program LOGHDR has been written. This is a utility program for adding geophysical data to the data base and updating the well information. LOGHDR is now being debugged and tested.

DOE Credit Card Calls

Nothing to report.

PAE:sc